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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/539,240	12/14/2005	Yuji Hiramatsu	90606.52/ta	9234	
S4071 YAMAHA HA	7590 02/14/200 TSUDOKI KABUSHI	EXAM	EXAMINER		
C/O KEATING & BENNETT, LLP 8180 GREENSBORO DRIVE SUITE 850			VANAMAN, FR	VANAMAN, FRANK BENNETT	
			ART UNIT	PAPER NUMBER	
MCLEAN, VA	22102	3618	3618		
			NOTIFICATION DATE	DELIVERY MODE	
			02/14/2008	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

JKEATING@KBIPLAW.COM uspto@kbiplaw.com

Office Action Summary

Application No.	Applicant(s)	Applicant(s)		
10/539,240	HIRAMATSU, YUJI			
Examiner	Art Unit			
Frank B. Vanaman	3618			

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The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 133(6), 1 no event, however, may a reply be timely filed after SX (6) MONTHS from the making date of this communication. If NO period or reply is specified above, the machine statutory period will apply and will expire SX (6) MONTHS from the making date of this communication. If NO period or reply is specified above, the machine statutory period will apply and will expire SX (6) MONTHS from the making date of this communication. All yreply received by the Office bird than three months after the making date of this communication, even if timely filed, may reduce any carried partner three adjustments. See 37 CFR 17 CFR 187.							
Status							
T)☐ Responsive to communication(s) filed on Za)☐ This action is FINAL.	– action is non-final. ice except for formal matters, pro		e merits is				
Disposition of Claims							
4) ☑ Claim(s) 7-26 is/are pending in the application. 4a) Of the above claim(s) is/are withdrav 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) 26 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or							
Application Papers							
9) The specification is objected to by the Examine 10) The drawing(s) filed on 16 June 2005 is/are: a) Applicant may not request that any objection to the ore Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 9. The same of the examine is a specific to be the examine in the correct 11. The oath or declaration is objected to by the Examine 11. The oath or declaration is objected to by the Examine 12. The oath or declaration is objected to by the Examine 13. The oath or declaration is objected to by the Examine 14. The oath or declaration is objected to by the Examine 15. The oath or declaration is objected to by the Examine 16. The oath or declaration is objected to by the Examine 17. The oath or declaration is objected to by the Examine 18. The oath or declaration is objected to be the examine 19. The oath or declaration is objected to be the examine 19. The oath or declaration is objected to be the examine 19. The oath or declaration is objected to be the examine 19. The oath or declaration is objected to be the examine 19. The oath or declaration is objected to be the examine 19. The oath or declaration is objected to be the examine 19. The oath or declaration is objected to be the examine 19. The oath or declaration is objected to be the examine 19. The oath or declaration is objected to be the examine of the oath or declaration is objected to be the examine of the oath or declaration is objected to be the oath or declaration or declaration is objected to be the examine of the oath or declaration is objected to be the oath or declaration or declaration or declaration is objected to be the oath or declaration or declar	☐ accepted or b)☑ objected to drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 C					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National	Stage				
Attachment(s)							

- 1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 4) Information Disclosure Statement(s) (PTO/SE/DE) Paper No(s)/Mail Date 6/16/05, 8/5/05, 7/19/06, 12/7/06.
- Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____. 5) Notice of Informal Patent Application
- 6) Other:



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Status of Claims

Applicant's Preliminary amendment has been entered in the application. Claims
 are canceled, claims 7-26 are currently pending.

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

3. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the case with a fixing element arranged to fix a central region of the case to the board, leaving front and rear ends of the case free, where the case is slidingly attached to the board (claim 13) must be shown or the feature(s) canceled from the claim(s). Note that the claims are cumulative, as such claim 13 includes all limitations of claim 7, and as such, claim 13 appear to mix two distinct embodiments, which is not shown. No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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Claim Rejections - 35 USC § 112

- 4. Claims 7-26 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed. had possession of the claimed invention. In claims 7 and 17, the claims recite a motor controller arranged to supply at least one wheel with rotary power. The specification as filed and the drawings fail to completely support this recitation. See the specification at paragraphs 0038 and 0039, which describe the motor as being located inside the drive wheel (7), wherein the wheel is supported on a supporting arm (35) which is allowed to freely pivot through 360 degrees (paragraph 0039), however no operative connection through this freely pivoting arrangement is described for providing motor power to the motor in the wheel from the controller on the board. In claim, 13, the recitation of a case which is both (a) provided with a fixing element arranged to fix a central region of the case to the board, leaving front and rear ends of the case free, and (b) where the case is slidingly attached to the board is not supported by the specification as filed. Note that the claims are cumulative, as such claim 13 includes all limitations of claim 7, and as such, claim 13 appear to mix two distinct disclosed embodiments, which are not disclosed as being usable together.
- 5. Claim 8 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In claim 8, line 4, "the rotary force" lacks a clear antecedent basis (compare to "rotary power" in claim 7).

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be neadtived by the manner in which the invention was made.

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7. Claims 7-12, 14 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Endo et al. (US 5,487,441). Endo et al. teach a skateboard including a board portion (1) with a top and bottom surface, and which is made from a material which constitutes a structure and which has an inherent flexibility property, wheels (8, 11) provided on a bottom surface at front and rear regions thereof, a motor controller in the form of at least a battery (13), which is provided with at least one fixing element in the form of a bolt (14) and nut (15), which is located only at a longitudinally central location on the controller, leaving the front and rear portions free (see figure 9, for example) fixing the top face to the bottom of the board, and with the remaining portions being suspended from the board, the arrangement further provided with a weight transfer detection sensor (16, 17), which detects a weight transfer of the rider (e.g., on or off 16, 17) and generates a signal by placing a motor resistance across the battery (i.e., by providing a current draw), and controlling the motor.

The reference to Endo fails to explicitly separately teach a case for the controller which comprises a battery (13). It is very old and well known to provide controllers and/or batteries in casings so as to protect them from damage, and it would have been obvious to one of ordinary skill in the art at the time of the invention to provide a case to accommodate the battery for the very well known purpose of preventing damage to the battery. As regards claim 11, the reference to Endo et al. fails to explicitly teach plural batteries, however it is very old and well known to duplicate already-taught elements in the prior art to enhance or multiply the taught effect of the elements, and as such, it would have been obvious to one of ordinary skill in the art at the time of the invention to provide the battery as plural batteries for the purpose of (1) providing a higher motor drive voltage and/or (2) providing a higher motor current.

8. Claims 13 and 17-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Endo et al. (cited above) in view of Smolka (US 3,797,844). The reference to Endo et al. fails to teach the battery and/or case as being slidably attached to the board, so as to allow longitudinal movement of the case, further to include the provision of elongated

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holes and/or a guide rail in which a fixing or guiding element is engaged. Smolka teaches that it is well known to provide a mounting for an element having a fixed spacing on a gliding board which has a greater degree of flexibility (in this case a ski, 5) wherein the mount includes a guide rail (lower portion of 3) which engages with guiding elements (7) constituted by pins which are engaged in slots. Smolka additionally teaches specifically that such an arrangement provides an advantage in that the normal flexibility of the board is retained, while the components on the mounting are retained in a fixed arrangement (see the abstract, for example). It would have been obvious to one of ordinary skill in the art at the time of the invention to provide the battery mounting as a mount having a guide rail and mounting pins and/or elongated openings, as taught by Smolka to mount the battery taught by Endo et al. to the bottom of the board of Endo et al., for the purpose of allowing the flexibility of Endo et al.'s board to be unimpeded by the presence of the battery and casing. One of ordinary skill, noting the clear advantage taught by Smolka in providing a mounting which allows the natural flexibility of the board to be retained would recognize that such a mounting would provide a similar analogous retention of board flexibility in Endo et al.

9. Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Endo (cited above) in view of Staelin et al. (US 6,059,062). The reference to Endo et al. is discussed above and fails to teach that at least one of the battery and controller are spaced from the bottom of the board. Staelin et al. teach that it is well known in motorized propulsion devices to provide at least a battery (33) mounted with respect to the bottom face of a foot accommodating portion (18) so as to be spaced from the bottom face (e.g., figure 1a). It would have been obvious to one of ordinary skill in the art at the time of the invention to provide the battery taught by Endo et al. to be mounted in a spaced relationship with the bottom of the board face, as suggested by Staelin et al., for the purpose of accommodating a further element (44, 76, 171, etc.) in the same footprint of the battery casing, so as to facilitate closely proximate mounting of the battery and other elements, facilitating, for example, shorter electric line lengths, reducing voltage drop.

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10. Claim 26 is rejected under 35 U.S.C. 103(a) as being unpatentable over Endo et al. in view of Smolka and Staelin et al. The reference to Endo et al. as modified by Smolka is discussed above, and fails to teach that at least one of the battery and controller are spaced from the bottom of the board. Staelin et al. teach that it is well known in motorized propulsion devices to provide at least a battery (33) mounted with respect to the bottom face of a foot accommodating portion (18) so as to be spaced from the bottom face (e.g., figure 1a). It would have been obvious to one of ordinary skill in the art at the time of the invention to provide the battery taught by Endo et al. to be mounted in a spaced relationship with the bottom of the board face, as suggested by Staelin et al., for the purpose of accommodating a further element (44, 76, 171, etc.) in the same footprint of the battery casing, so as to facilitate closely proximate mounting of the battery and other elements, facilitating, for example, shorter electric line lengths, reducing voltage drop.

Conclusion

- 11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Martin (US 5,020,621), Hsu et al. (US 5,330,026), Finkle (US 5893,425), Namiki (US 6,428,022) and Lin (US 6,796,394) teach skate devices of pertinence.
- Any inquiry specifically concerning this communication or earlier communications from the examiner should be directed to F. Vanaman whose telephone number is 571-272-6701.

Any inquiries of a general nature or relating to the status of this application may be made through either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A response to this action should be mailed to:

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P. O. Box 1450
Alexandria, VA 22313-1450,
Or faxed for

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PTO Central Fax: 571-273-8300

F. VANAMAN Primary Examiner Art Unit 3618

/Frank B Vanaman/ Primary Examiner, Art Unit 3618